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1. [OSD12-AU3: Autonomous Landing Zone Detection](#)

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   OBJECTIVE: Develop vision-based hardware and software to enable Small Unmanned Air Systems (SUAS) to autonomously identify landing zones to enable other autonomous system teammates to land and re-launch. DESCRIPTION: Small Unmanned Air Systems (SUAS) are being developed for numerous applications, but size and weight constraints severely limit the endurance of such vehicles1, 2. Some of the ...

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2. [OSD12-AU4: Cooperative Autonomous Tunnel Mapping](#)

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   OBJECTIVE: Develop an autonomous team of aerial scouts capable of cooperatively exploring an unknown indoor environment, and communicating their findings to each other and their human operators. DESCRIPTION: There are numerous applications for unmanned/robotic systems operating in complex urban or indoor environments1, 2. A high level of autonomy is desired to reduce operator workload, and ...

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3. [OSD12-AU5: Fashioning of an Adaptive Workspace through Autonomous Services](#)

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   OBJECTIVE: Develop robust technologies that promote an"impedance match"or"human-IT partnership"that increases the analyst's agility and compliment the human. Traditional approaches to human-computer interaction focus on relatively simplistic human behavior (e.g., key strokes, mouse clicks, etc,). This effort will concentrate on the analyst"s experience by providing a means to address task off-loa ...

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4. [OSD12-AU6: Autonomy for Seeking, Understanding, and Presenting Information](#)

   Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

   Objective: Develop scalable computing algorithms capable of performing autonomous sense making operations based on learning and/or training. Specifically, reduce the effect of operator information overload by autonomously gathering relevant information for decision-makers and drawing meaningful conclusions from massive amounts of data, therefore optimizing human-agent interactions. Description ...

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5. OSD12-EP3: Energy Storage Enclosure Technologies for High Density Devices

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop shock, vibration, environmental and EMI-hardened energy storage enclosures that are optimized to withstand and withhold/direct the energetics of a component or cascade of energy storage component failures. To provide this enclosure and protection of nearby personnel and equipment via state of the art materials and structural design so that the volumetric and gravimetric penal ...

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6. OSD12-EP4: Tactical Power Plant Multi-Generator Intelligent Power Management Controller

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop and demonstrate a ruggedized tactical power plant generator controller to enable fuel savings and reduced generator wear. DESCRIPTION: Tactical power generation for Army deployments has demonstrated low efficiency conversion due to wide variations in load. Tactical generators routinely operate below 50% of peak power which results in low fuel efficiency. Future endeavor ...

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7. OSD12-EP5: Dynamic Time and Frequency Domain Modeling of Aircraft Power System with Electrical Accumulator Units (EAU)

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop generic time and frequency domain analysis modeling and analysis tools to analyze and determine mitigation strategies to maintain power quality with high dynamic aircraft power systems operating with electrical accumulator units (EAU). DESCRIPTION: Ever increasing high dynamic load demands are being placed on aircraft power systems. Peak and regenerated ene ...

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8. OSD12-EP6: Cylindrical Geometry Energy Storage Cooling Architectures

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To develop compact, low thermal resistance solutions for maintaining the temperature of cylindrical energy storage components set up in high voltage arrays. Better temperature control in platforms will reduce the need to de-rate components, improving reliability and system energy density. DESCRIPTION: Future military platforms will require more extensive use of electronic power sy ...

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9. OSD12-EP7: Militarized Power Line Communication

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Demonstrate cost effective, secure, militarized power line communication system components which can provide a reduced infrastructure solution to properly manage variable resources and loads for multi generator operations, bases, and platforms. DESCRIPTION: Communication is the key to successfully managing the elements that make up a smart electrical architecture or grid including ...

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10. OSD12-ER1: Evaluating Component Interactions Within Complex Systems

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

Objective: This topic seeks proposals to develop innovative, human-in-the-loop mechanisms for identifying analysis, test, and evaluation workflows that need to be generated in order to reduce risk of unanticipated effects. Description: The Department of Defense (DoD) must be prepared to support a wide range of missions across dynamic and uncertain futures, including rapid changes in missions, t ...

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